CENTRAL INTELLIGENCE AGENCY

# INFORMATION REPORT



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This is UNEVALUATED

*THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.*
*THE APPRAISAL OF CONTENT IS TENTATIVE.*
*(FOR KEY SEE REVERSE)*

25X1

1. Winding Wires:

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a. Planned consumption for 1954 by the foundry industry for maintaining:

| | Number of units | Amount of wire per unit - total | | Maintenance consumption | Checking factor |
|---|---|---|---|---|---|
| Electric motors | 115,180 | 30 kg. | 3,455,400 kg. | 190,047 kg. | 1.65 kg/unit |
| Slip-energy converters (luzownik) | 8,895 | 7 kg. | 62,265 kg. | 9,340 kg. | 1.05 " |
| Transformers | 3,342 | 75 kg. | 250,650 " | 5,013 " | 1.5 " |
| Contactors | 7,965 | 3 kg. | 23,895 " | 549 " | 0.07 ? " |
| Miscellaneous (coils, etc) | 33,400 | 0.3 kg. | 10,020 kg. | 1,002 kg. | 0.03 " |

Total consumption: 205,951 kg.

b. Consumption in 1952 by the foundry industry was:

| | |
|---|---|
| winding wire, enamel-insulated | 33,191 kg. |
| " " , braided | 65,086 " |
| " " , specially braided | 6,826 " |
| " " , braided profile wire | 4,174 " |
| Total | 100,277 kg. |

whereas the planned maintenance consumption was for:

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|---|---|---|---|---|---|---|
| X | X | X | X | | | x |

(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

| | Number of units | Maintenance consumption | Checking factor |
|---|---|---|---|
| Electric motors | 60,420 | 99,693 kg. of wire | 1.65 kg/unit |
| Slip-energy converters | 6,500 | 6,826 " " " | 1.05 " |
| Transformers | 2,000 | 3,000 " " " | 1.5 " |
| Contactors | 3,010 | 181 " " " | 0.06 " |
| Miscellaneous | 20,300 | 610 " " " | 0.03 " |
| Total: | | 110,310 kg. of wire | |

c. Planned consumption for 1953 was in:

| | |
|---|---|
| enamel-insulated wire | 32,751 kg. |
| braided wire | 76,485 " |
| specially braided wire | 14,170 " |
| braided profile wire | 11,184 |
| Total: | 134,590 kg. |

whereas the required maintenance consumption was for:

| | Number of units | Maintenance consumption | Checking factor |
|---|---|---|---|
| Electric motors | 75,000 | 123,750 kg. of wire | 1.65 kg/unit |
| Slip-energy converters | 6,900 | 7,245 " " " | 1.05 " |
| Transformers | 2,600 | 3,900 " " " | 1.5 " |
| Contactors | 3,300 | 198 " " " | 0.06 " |
| Miscellaneous | 23,500 | 705 " " " | 0.03 " |
| Total: | | 135,798 kg. of wire | |

d. In 1953 the available supply to meet the planned requirements was:

(1) Allotment of enamel-insulated wire 15,000 kg.
" " braided wire 50,000 "
" " braided profile wire 15,000 "

Total: 80,000 kg.

(2) Supplied from reserve stocks and other works: 24,390 kg.

Thus the estimated shortage can be 30,000 kg., i.e. about 1,000 aggregates left unrepaired in 1953.

2. Feeder conductors for travelling cranes in the foundry industry:

a. Planned consumption for 1954 in maintaining 3,457 travelling cranes is in:

| | Requirements | Checking factor |
|---|---|---|
| (1) Copper trolley wire (cross-section 8 mm.) | 46,670 kg. | 13.5 kg/crane |
| (2) Network of feeder lines for the cranes 184,315 m. long with three cables and 340,000 m. long with single cable, thus 892,945 m. as a total length (cross section 10.1 mm.) | 16,000 kg. | 0.0179 ? kg/m. |

b. Maintenance consumption in 1952 for 1,025 travelling cranes was: 16,490 kg., and should be in:

| | Requirements | Checking factor |
|---|---|---|
| (1) Copper trolley wire (overhead conductor) | 13,830 kg. | 13.5 kg/crane |
| (2) Network of feeder lines, 147,778 m. long | 2,660 kg. | 0.018 kg/m. |
| Total: | 16,490 kg. | |

c. Planned consumption in 1953 for 1,660 travelling cranes was: 29,767 kg., as follows:

| | | |
|---|---|---|
| (1) Copper trolley wire | 22,410 kg. | 13.5 kg/crane |
| (2) Network of feeder lines, 408,730 m. long | 7,357 kg. | 0.018 kg/m. |

d. The data referring to the number of travelling cranes and the length of their network of feeder lines in 1952 and 1953 do not include those cranes and feeder lines for which a thorough exchange of cables was carried out in the years 1945-1951. The latter have been included in the data referring to 1954 together with the new travelling cranes and feeder lines put into operation in 1947-1953.

3. Heavy-current magnetic cables in the foundry industry:

a. Consumption in 1952 was: 133,205 m.
b. Estimated consumption in 1953: 178,336 m.
c. Planned consumption for 1954: 429,727 m.

4. The general situation in the Ministry of the Foundry Industry, as far as the supply of electric accessories is concerned, is a very difficult one, there being considerable shortages. The allotments scarcely cover 50 percent of the requirements. The supply of winding wires is particularly bad.